

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 12901 - L2 Version 3  
Chandra X-Ray Center

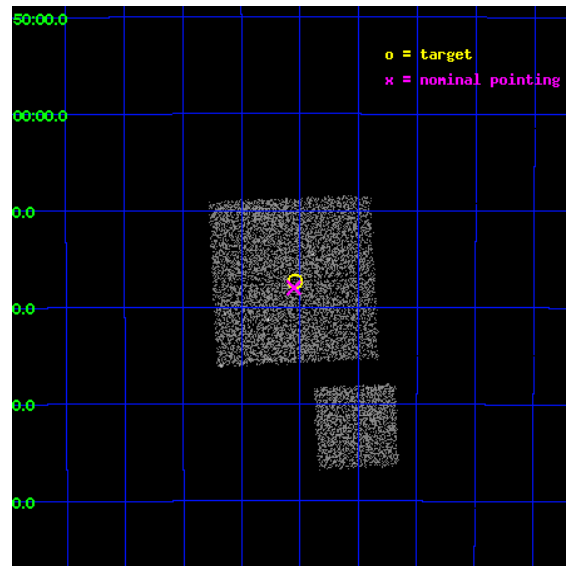
L2 Processing Date : Feb 13 2012

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# 1 Front

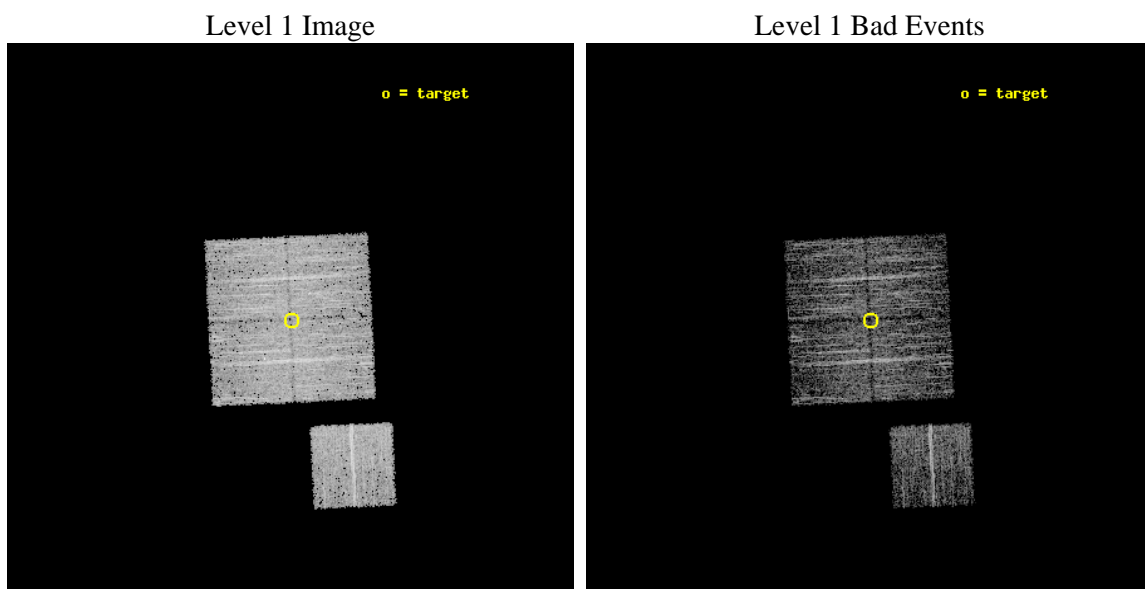
seq_num	801038	Sequence number
obs_id	12901	Observation id
title	The Outer Limits of Clusters with Chandra and Suzaku	Proposal titl
observer	Dr. Eric Miller	Principal investigator
object	RXCJ0605_Field3	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	91.761302	Observer's specified target RA [deg]
dec_targ	-35.28803	Observer's specified target Dec [deg]
ra_nom	91.763292164269	Nominal RA [deg]
dec_nom	-35.299801340491	Nominal Dec [deg]
roll_nom	177.18444286796	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5056.1000388861	Sum of GTIs [s]
livetime	4990.0383696313	Livetime [s]
ontime0	5056.1000388861	Sum of GTIs [s]
ontime1	5056.1000388861	Sum of GTIs [s]
ontime2	5056.1000388861	Sum of GTIs [s]
ontime3	5056.1000388861	Sum of GTIs [s]
ontime6	5056.1000388861	Sum of GTIs [s]
l2events	14245	Number of level 2 events



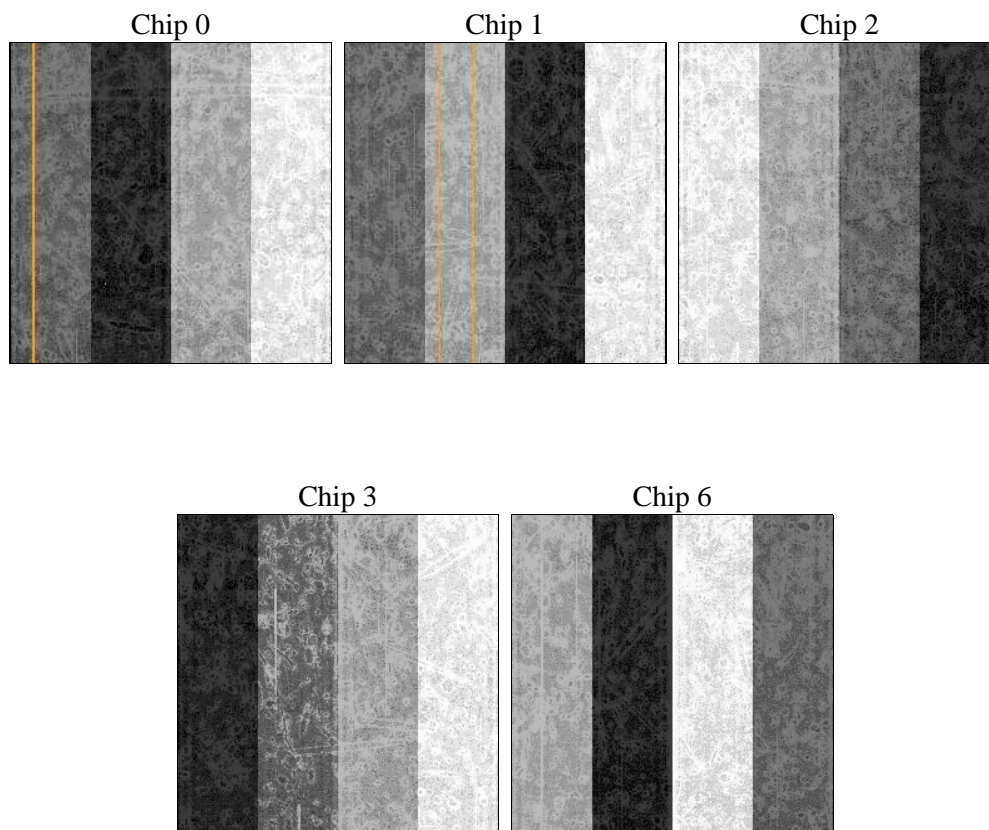
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	5056.1000388861	Sum of GTIs [s]
caldbver	4.4.7	&#160	ontime0	5056.1000388861	Sum of GTIs [s]
date	2012-02-13T14:56:02	Date and time of file creation	ontime1	5056.1000388861	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	5056.1000388861	Sum of GTIs [s]
			ontime3	5056.1000388861	Sum of GTIs [s]
			ontime6	5056.1000388861	Sum of GTIs [s]
			l1events	139117	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	27225	28003	28208	27895	27786
rejected events	23879	24434	24934	24493	24466
rejected %	87%	87%	88%	87%	88%

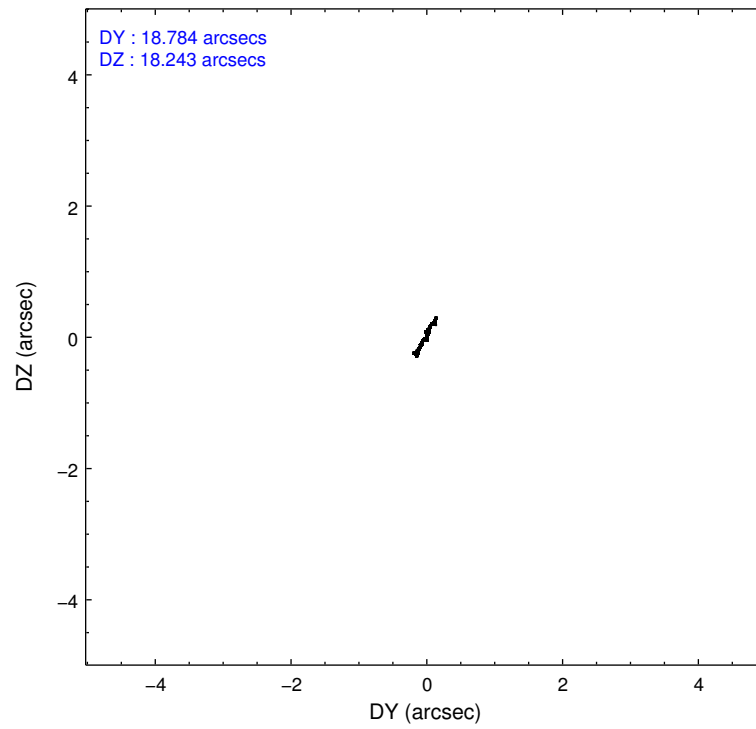
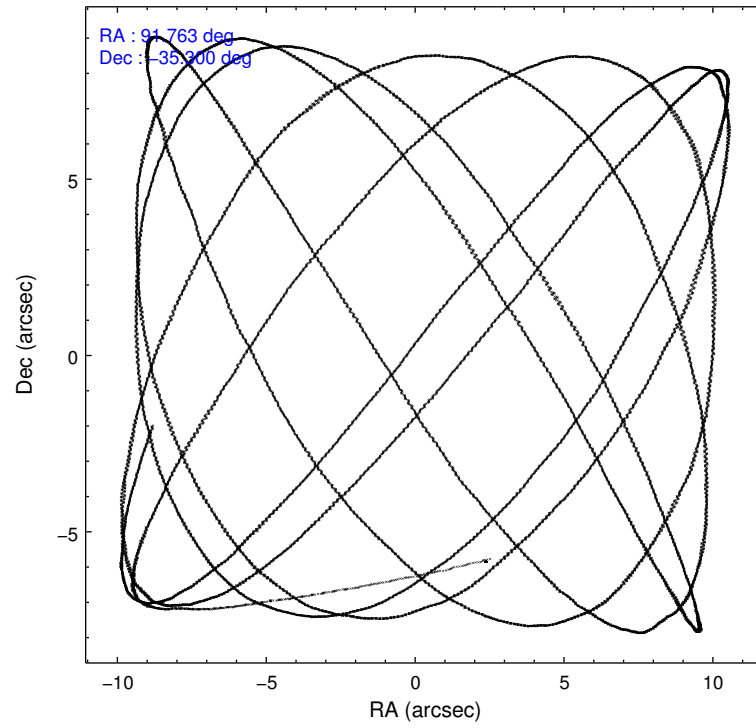
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1228	1291	1181	1277	1132
	4%	4%	4%	4%	4%
grade 1 events	15	12	19	13	16
	0%	0%	0%	0%	0%
grade 2 events	816	825	770	735	730
	2%	2%	2%	2%	2%
grade 3 events	334	383	345	333	330
	1%	1%	1%	1%	1%
grade 4 events	292	357	325	341	349
	1%	1%	1%	1%	1%
grade 5 events	1303	1386	1173	1386	1367
	4%	4%	4%	4%	4%
grade 6 events	682	715	661	719	788
	2%	2%	2%	2%	2%
grade 7 events	22555	23034	23734	23091	23074
	82%	82%	84%	82%	83%

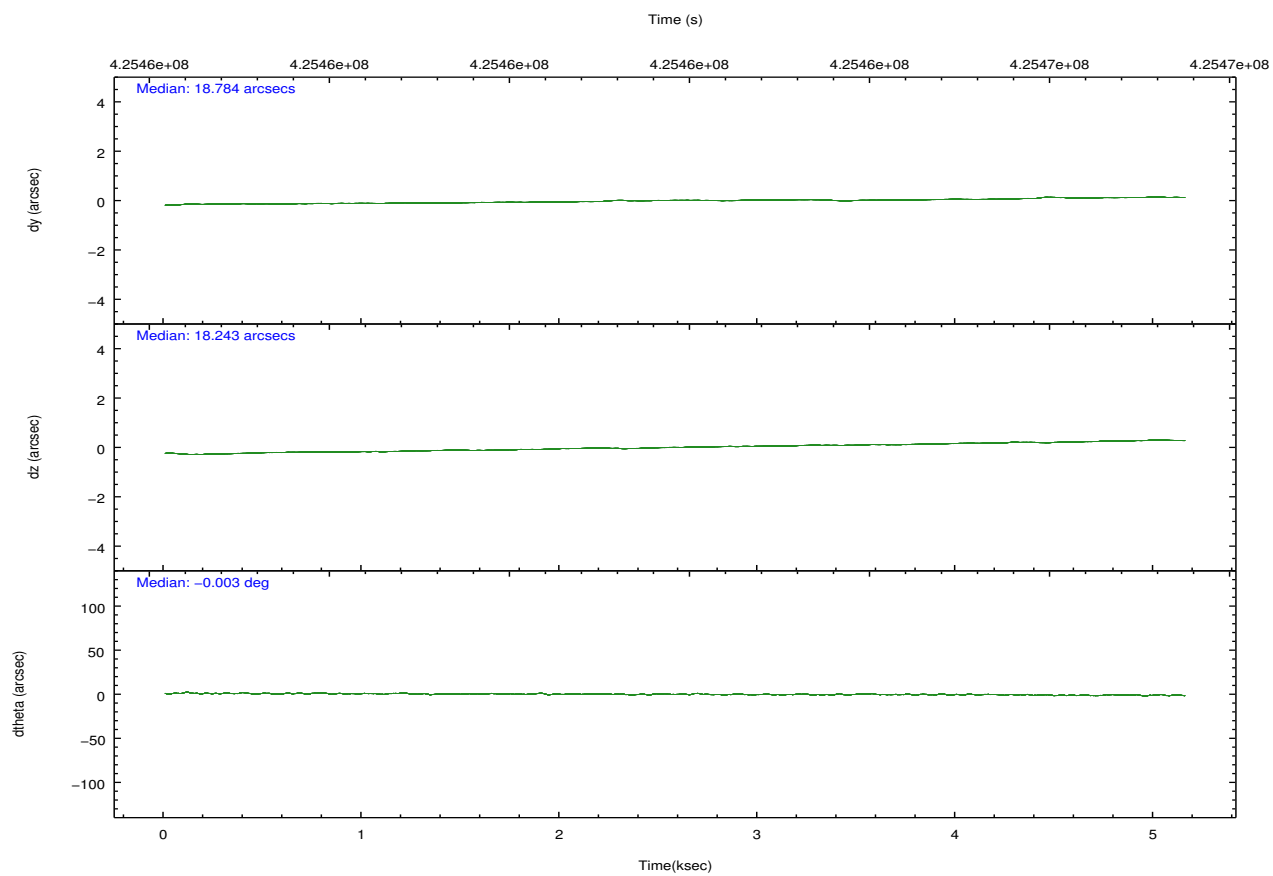
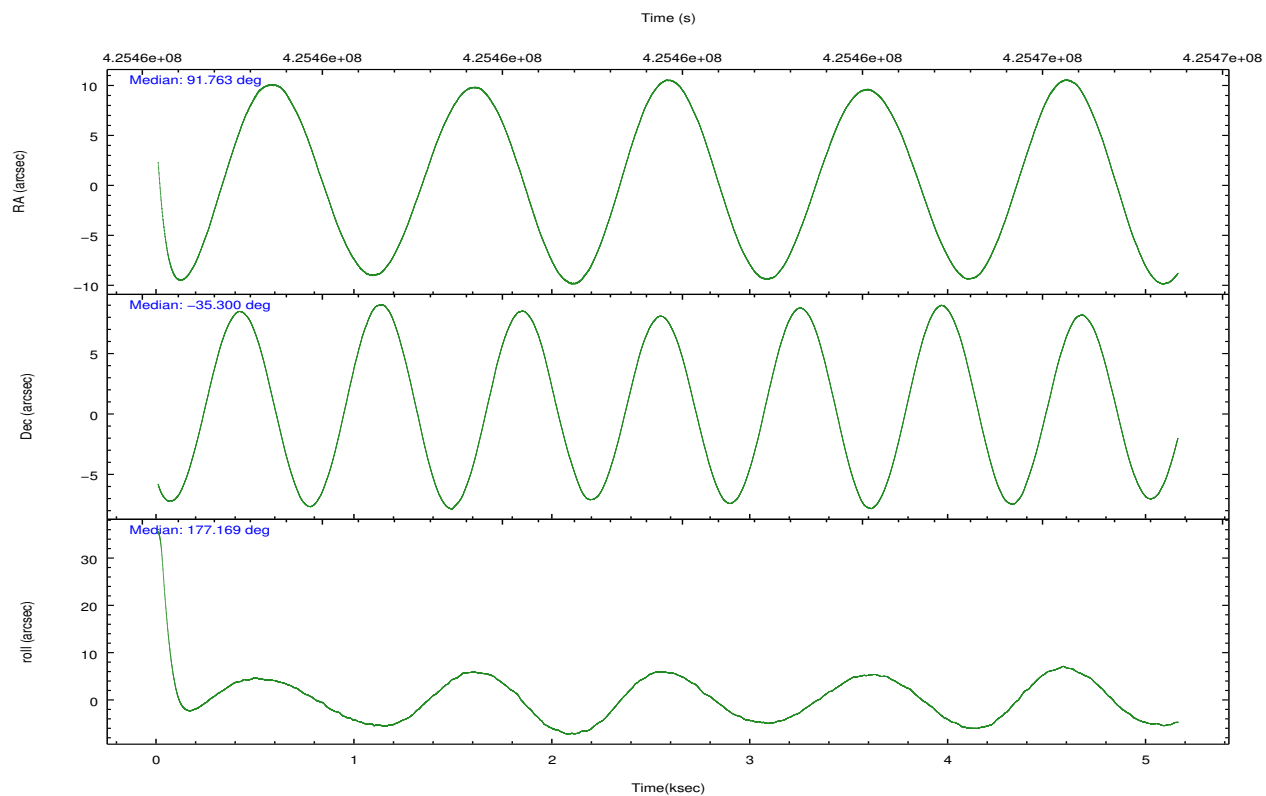


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	91.793259	91.76329216426882	CCD I2 on	Y	Y
[deg] Pointing Dec	-35.287063	-35.29980134049133	CCD I3 on	Y	Y
[deg] Pointing Roll	176.993011	177.1844428679636	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	425461507.184000	425460389.49986	CCD S5 on	N	N
Observation start date	2011-06-26T07:44:01	2011-06-26T07:26:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	425466507.184000	425467678.78774	On-chip summing requested	N	N
Observation end date	2011-06-26T09:07:21	2011-06-26T09:27:58	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



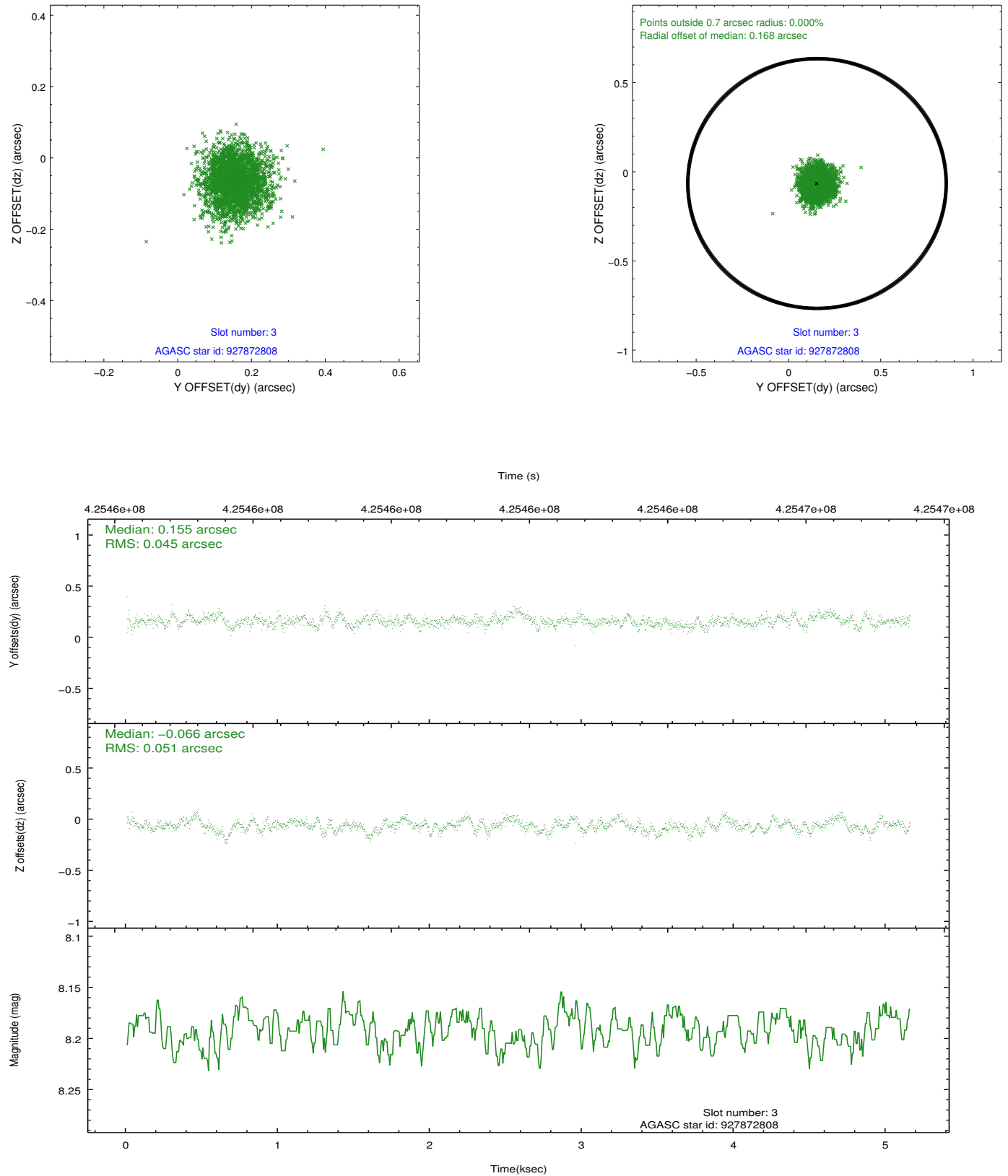


Slot Statistics

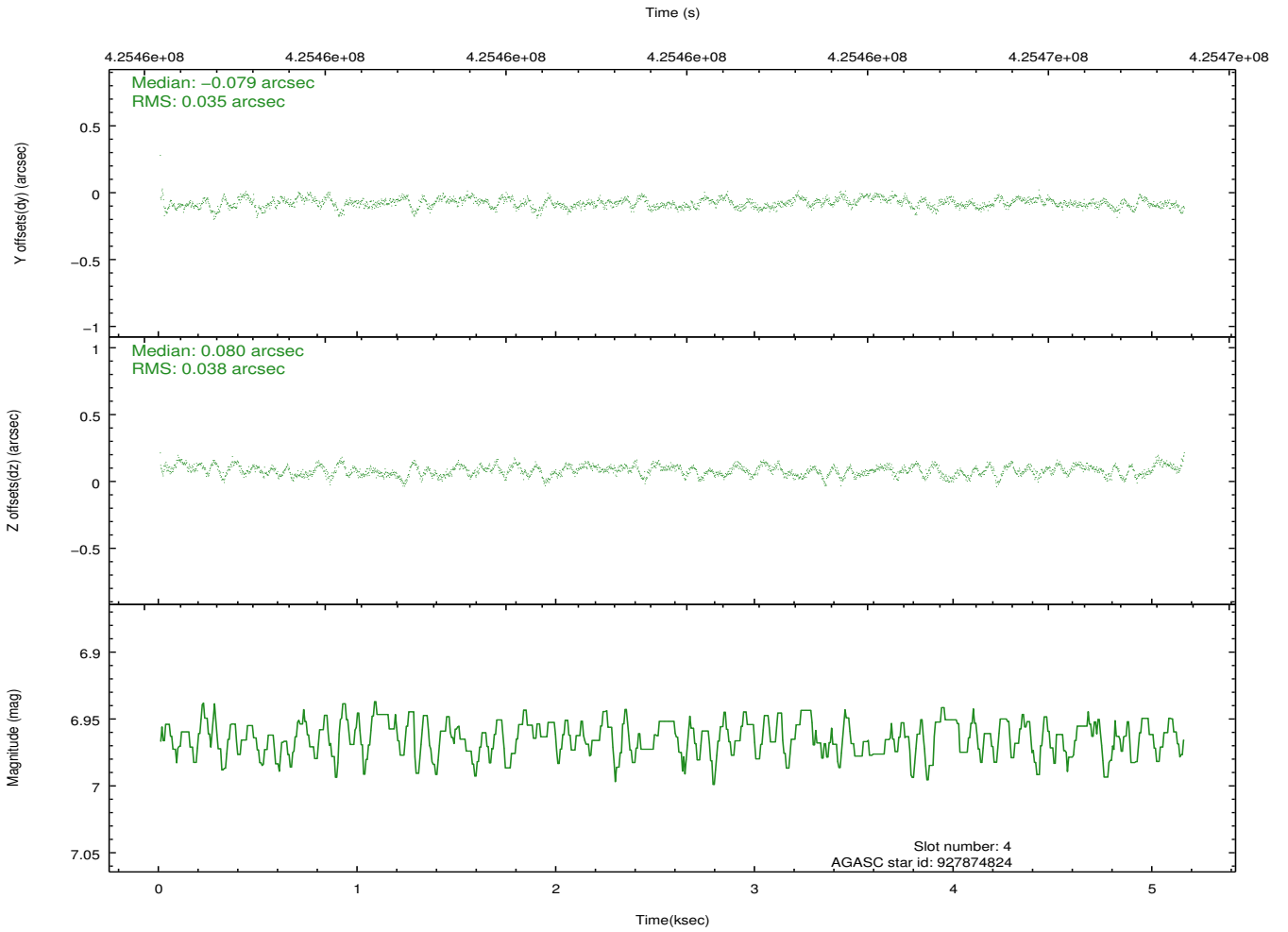
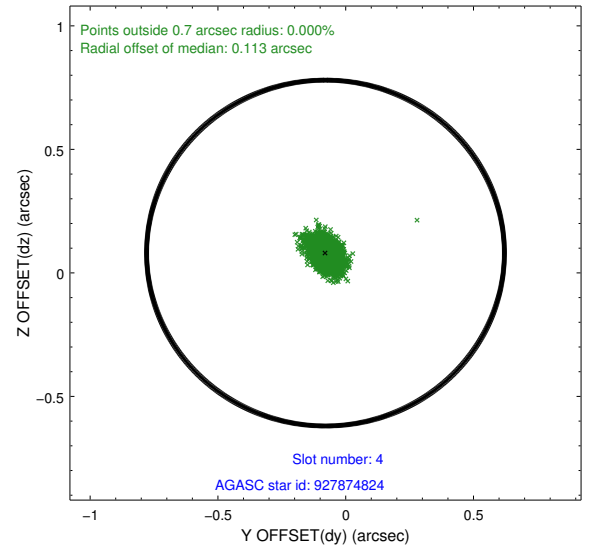
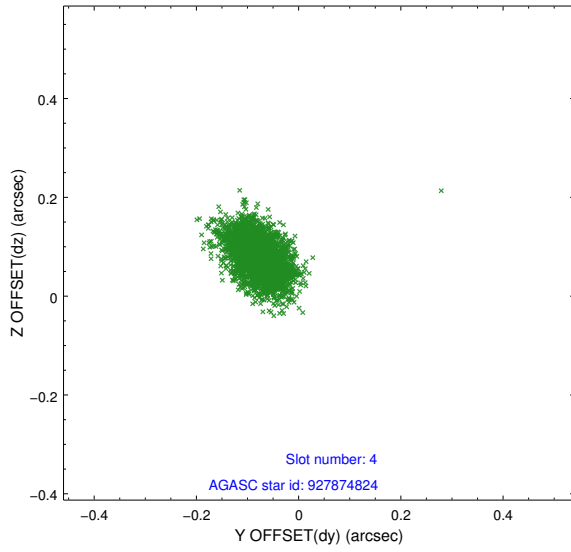
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	1257	0.046	0.028	0.010	0.018	0.000000	0.000000	920.64	-841.89
1	FID	ACIS-I-5	6.99	1258	-0.245	0.051	0.007	0.012	0.000000	0.000000	-1827.13	1055.00
2	FID	ACIS-I-6	7.01	1256	0.107	-0.009	0.008	0.012	0.000000	0.000000	384.93	1700.80
3	GUIDE	927872808	8.19	2515	0.155	-0.066	0.072	0.117	91.871506	-35.224616	-217.73	-235.85
4	GUIDE	927874824	6.96	2515	-0.079	0.080	0.055	0.088	91.923027	-34.639966	-261.43	-2345.53
5	GUIDE	928003024	8.50	2512	-0.004	-0.060	0.072	0.115	92.356326	-34.950295	-1595.43	-1294.16
6	GUIDE	927861016	8.62	2515	-0.076	0.043	0.078	0.128	90.996996	-35.118457	2372.15	-472.02
7	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

## 2.4 Star Slots

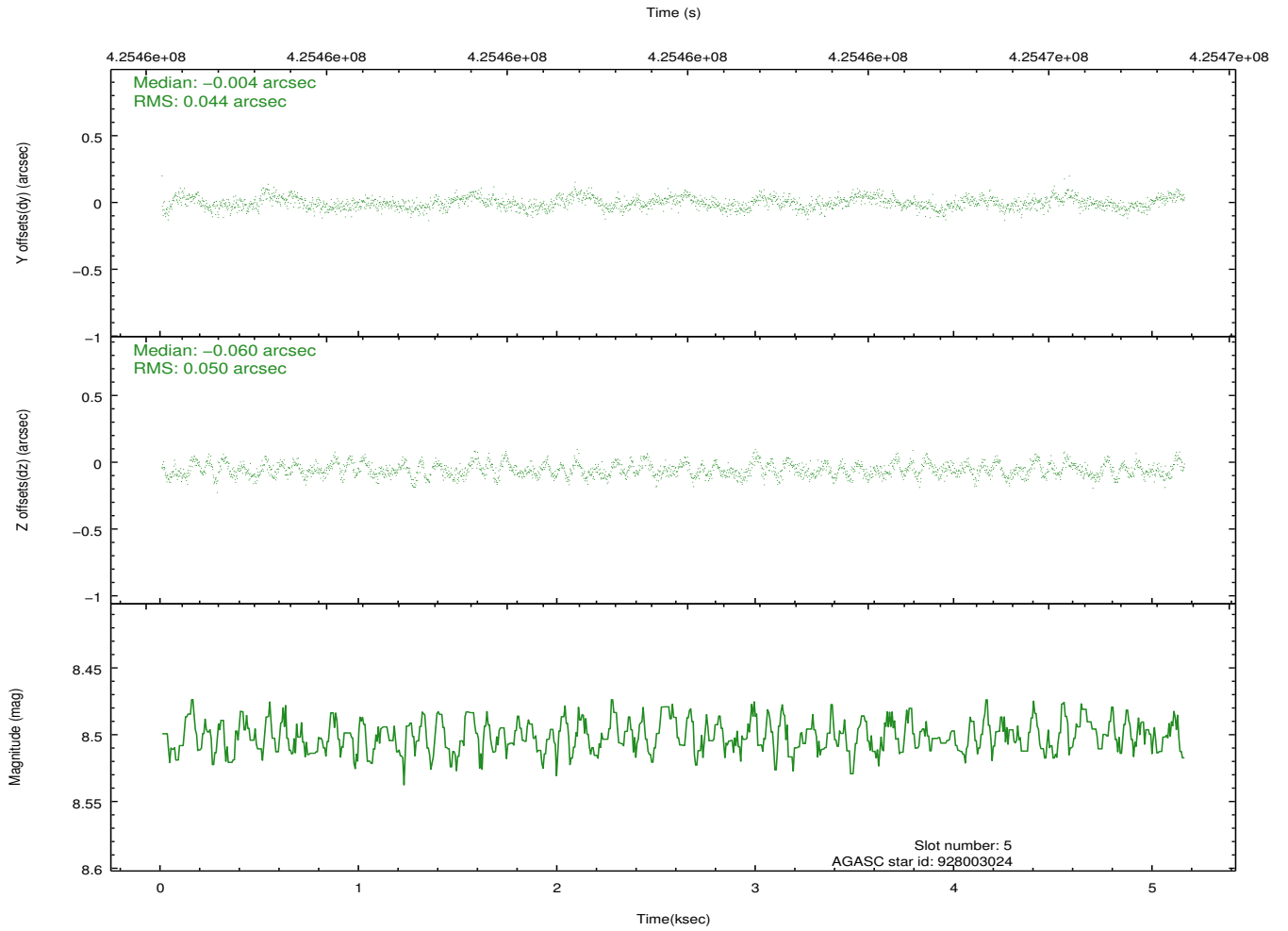
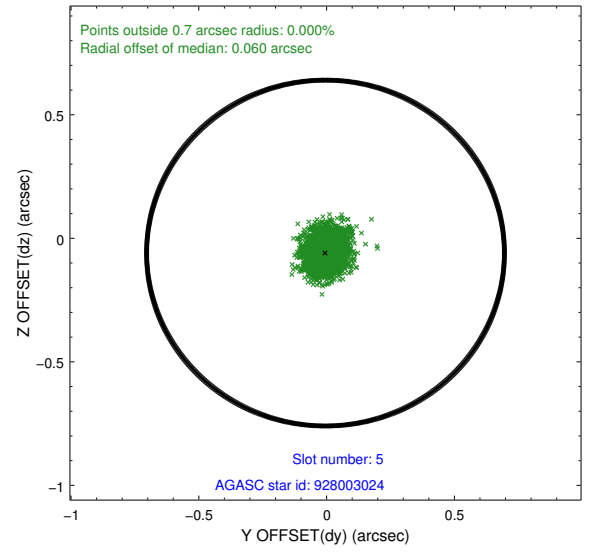
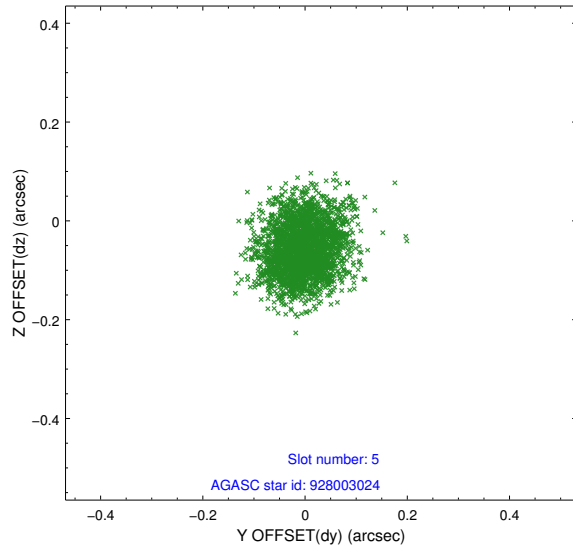
### 2.4.1 Slot 3



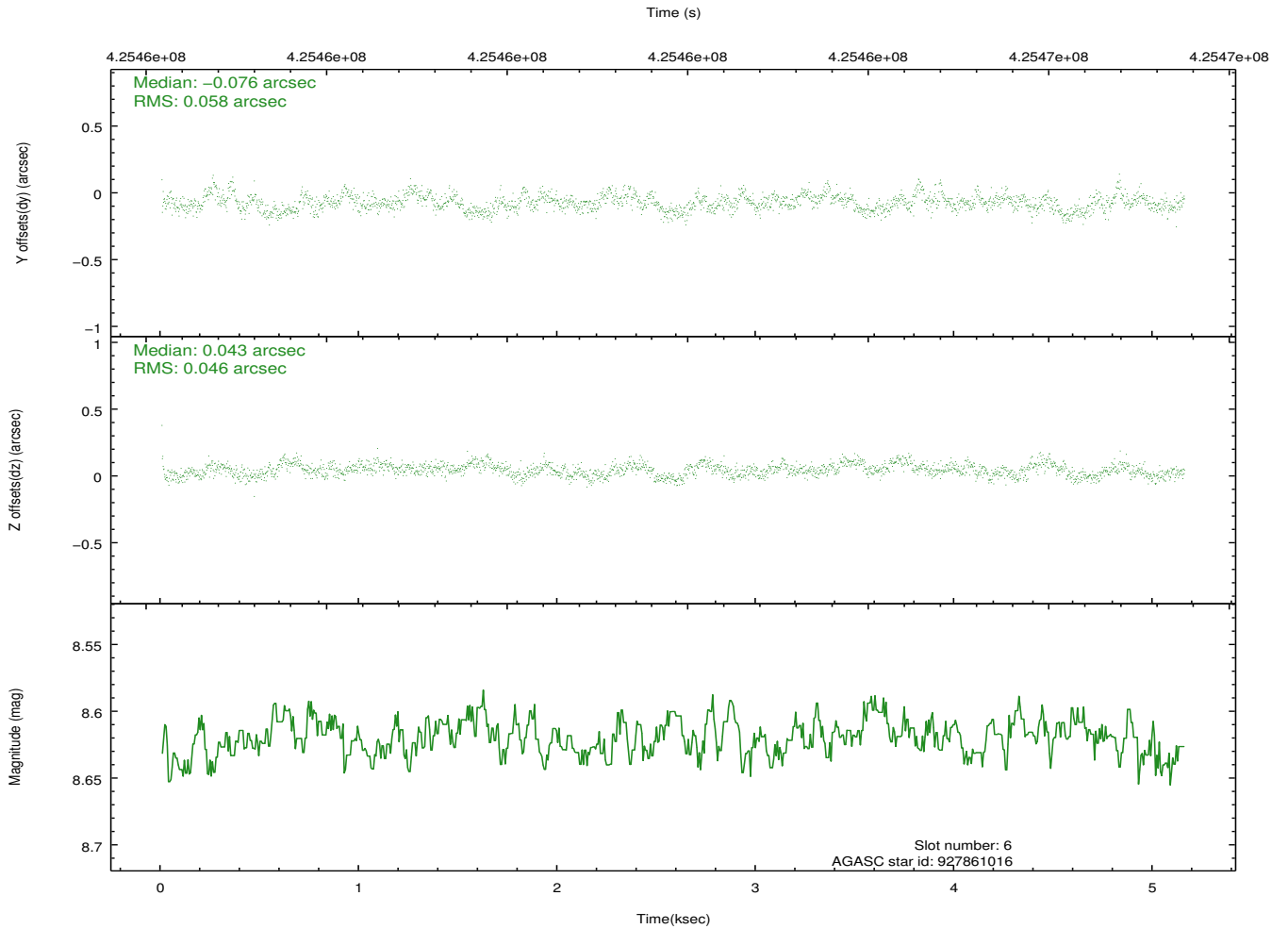
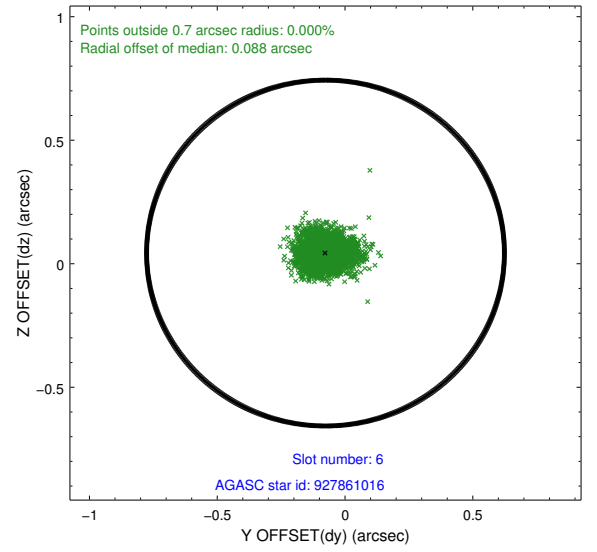
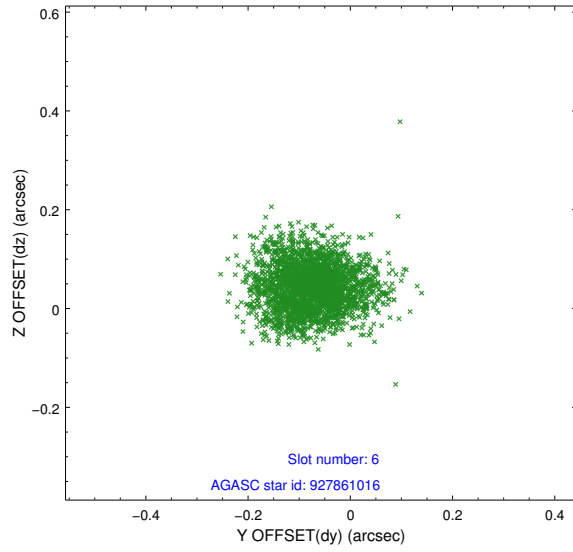
## 2.4.2 Slot 4



### 2.4.3 Slot 5



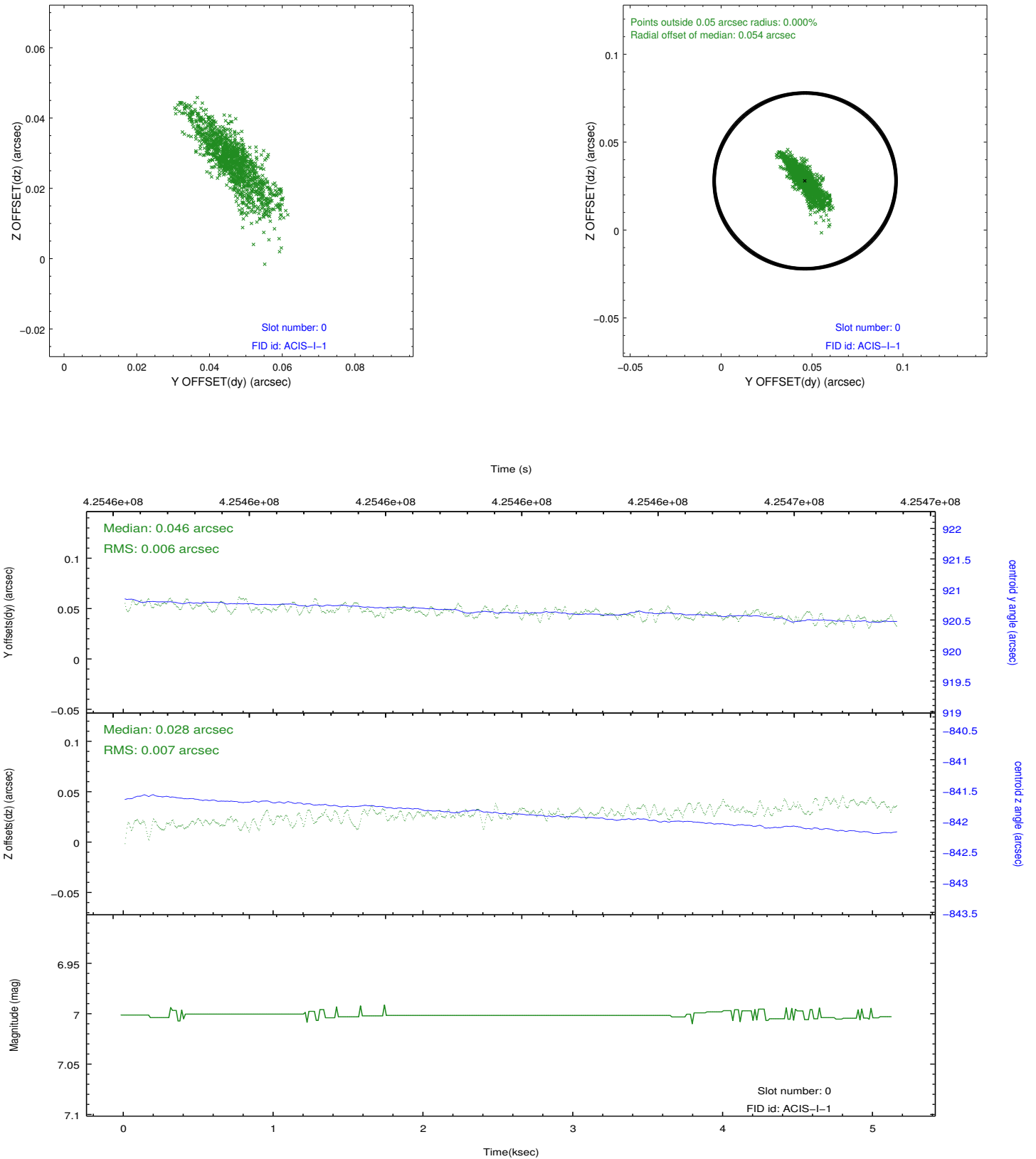
## 2.4.4 Slot 6



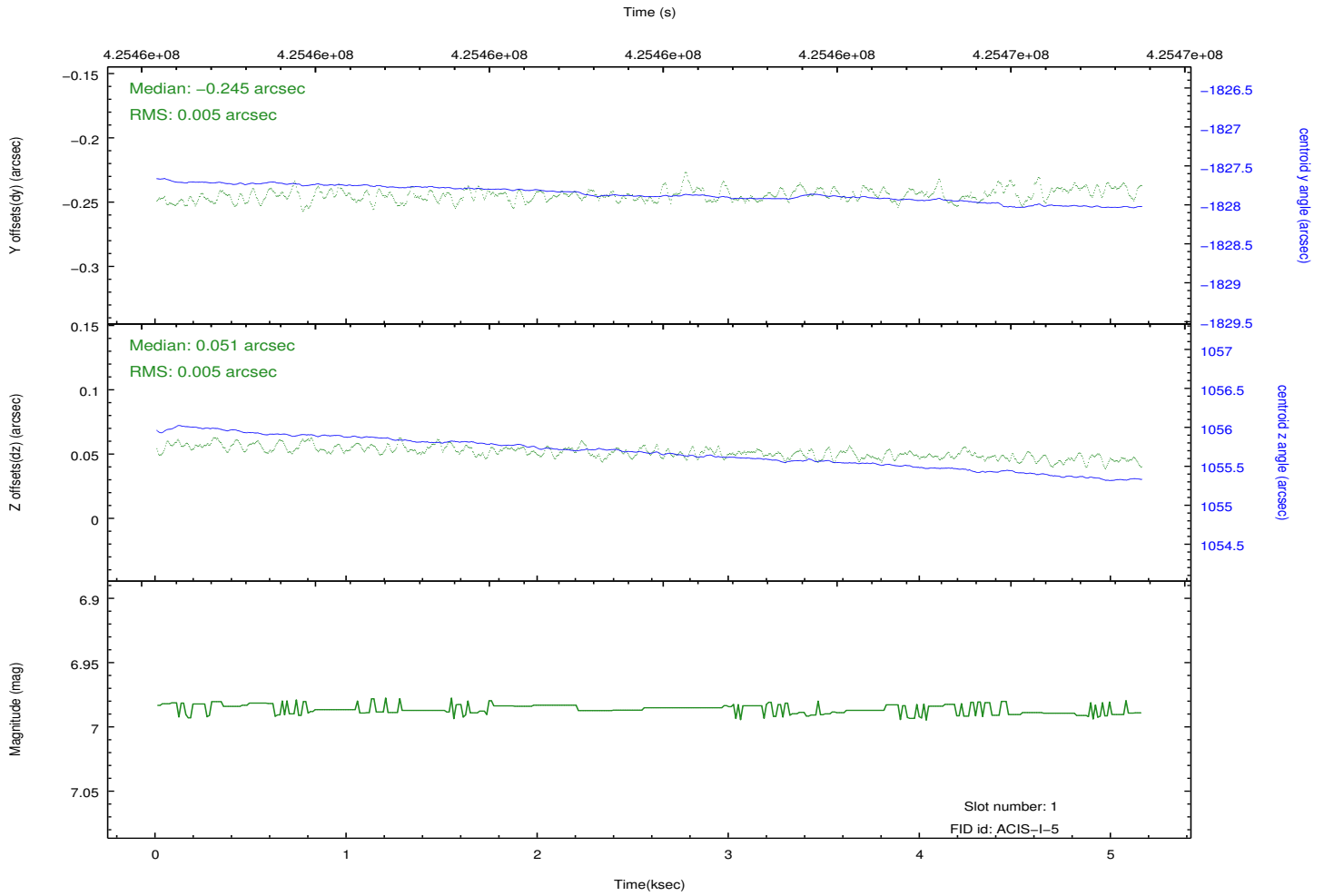
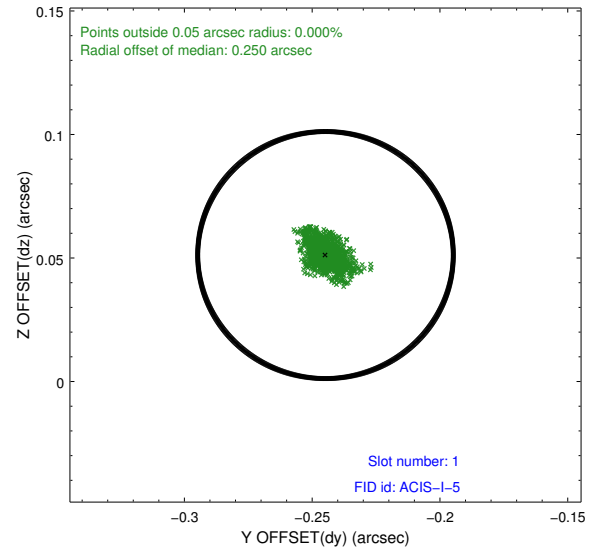
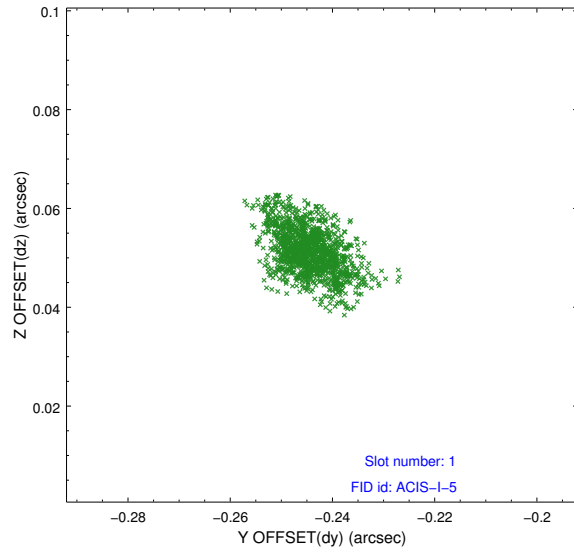


## 2.5 FID Slots

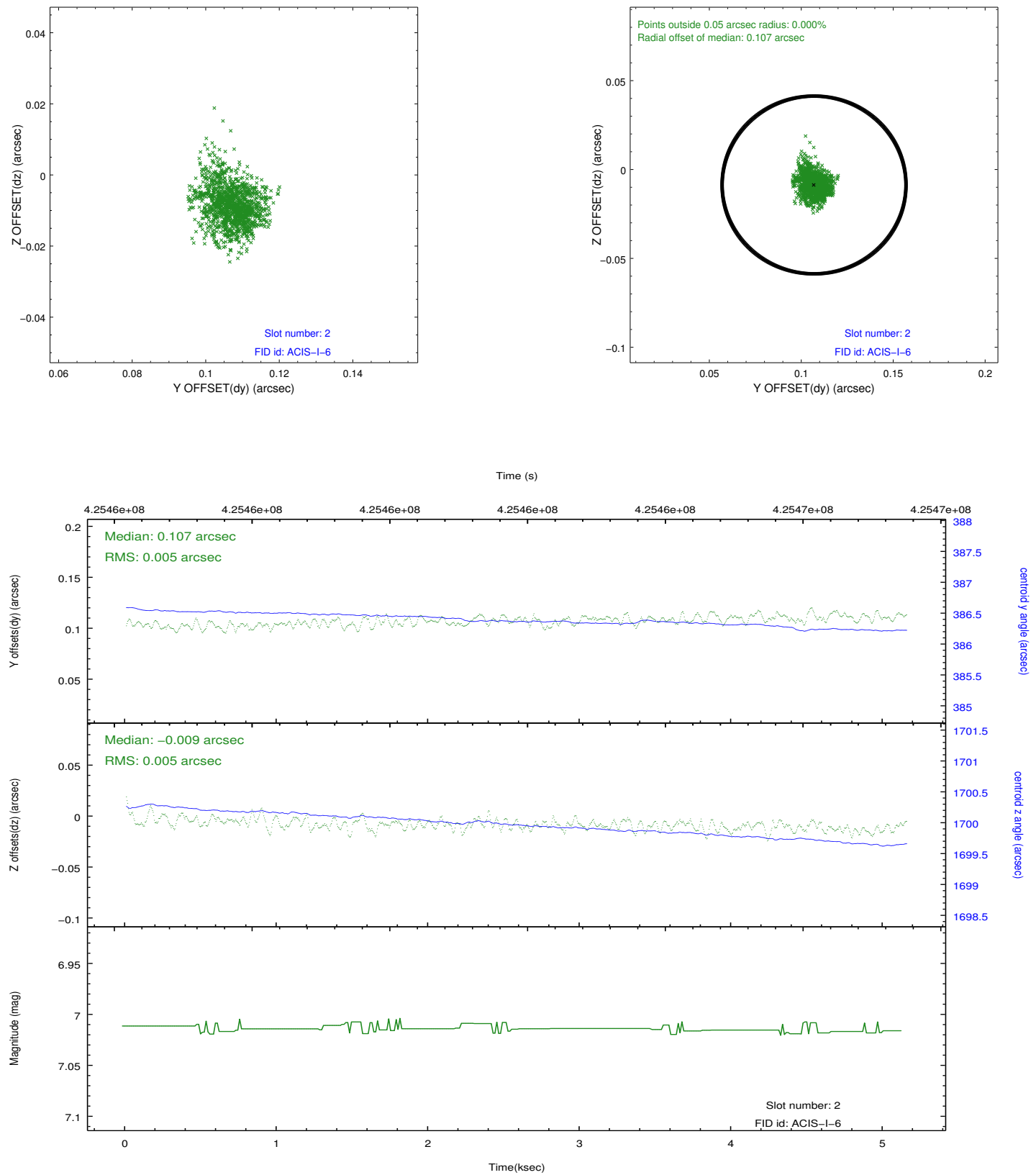
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0561000388861

### A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.